

AMENDMENTS TO THE CLAIMS:

Amend the claims as follows:

1. (Currently Amended) An ink composition comprising:

water;

a colorant;

a nonionic surfactant, the content of the nonionic surfactant being at a critical micelle concentration or more; and

a polyester resin containing a polybasic carboxylic acid ingredient and a polyhydric alcohol ingredient,

the polybasic carboxylic acid ingredient containing an aromatic dicarboxylic acid having a metal sulfonate group.

2. (Original) The ink composition of claim 1, wherein the polyester resin has a number average molecular weight within a range of from 5,000 to 50,000.

3. (Original) The ink composition of claim 1, wherein the polyester resin has a glass transition point T_g within a range of from -20°C to 70°C .

4. (Original) The ink composition of claim 1, wherein the polyhydric alcohol ingredient contains at least one glycol selected from the group consisting of aliphatic glycols and cycloaliphatic glycols.

5. (Original) The ink composition of claim 1, wherein electroconductivity of the water is 250 μ S/cm or less.

6. (Original) The ink composition of claim 1, wherein the colorant contains a pigment.

7. (Original) The ink composition of claim 6, wherein the pigment has a hydrophilic group.

8. (Original) The ink composition of claim 7, wherein the hydrophilic group is at least one of carboxyl group and sulfonic group.

9. (Original) The ink composition of claim 1, wherein the ink composition further comprises a water-soluble organic solvent having a vapor pressure lower than that of the water.

10. (Original) The ink composition of claim 9, wherein the water-soluble organic solvent contains glycol ethers and/or polyhydric alcohols.

Claim 11. (Canceled)

12. (Currently Amended) The ink composition of claim 6, wherein the pigment contains at least one pigment selected from the group consisting of C.I. pigment blue 15:3 and C.I. pigment blue 15:4.

13. (Original) The ink composition of claim 6, wherein the pigment contains at least one selected from the group consisting of C.I. pigment red 122, C.I. pigment red 209 and C.I. pigment violent 19.

14. (Original) The ink composition of claim 6, wherein the pigment contains at least one selected from the group consisting of C.I. pigment yellow 74, C.I. pigment yellow 138, C.I. pigment yellow 150 and C.I. pigment yellow 180.

15. (Original) The ink composition of claim 6, wherein the pigment contains a carbon black.

16. (Currently Amended) A recording method of recording images comprising:
depositing an ink composition of claim 1 on a recording material;
~~wherein for the ink composition is used the ink composition of claim 1.~~

17. (Original) A recording method of recording images comprising:
discharging liquid droplets of an ink composition by applying a pressure to the ink composition; and
depositing the liquid droplets on a recording material,

wherein for the ink composition is used the ink composition of claim 1.

18. (Currently Amended) The recording method of claim 16, wherein ~~for the ink composition~~ comprises a composition comprising at least the following ink compositions (i), (ii) and (iii):

(i) wherein the colorant contains at least one pigment selected from the group consisting of C.I. pigment blue 15:3 and C.I. pigment blue 15:4;

(ii) wherein the colorant contains at least one pigment selected from the groups consisting of C.I. pigment red 122, C.I. pigment red 209, and C.I. pigment violet 19;
and

(iii) wherein the colorant contains at least one pigment selected from the groups consisting of C.I. pigment yellow 74, C.I. pigment yellow 138, C.I. pigment yellow 150 and C.I. pigment yellow 180 ~~are used at least the ink composition of claim 12, the ink composition of claim 13, and the ink composition of claim 14.~~

19. (Currently Amended) The recording method of claim 17, wherein ~~for the ink composition~~ comprises a composition comprising at least the following ink compositions (i), (ii) and (iii): ~~are used at least the ink composition of claim 12, the ink composition of claim 13, and the ink composition of claim 14~~

(i) wherein the colorant contains at least one pigment selected from the group consisting of C.I. pigment blue 15:3, and C.I. pigment blue 15:4;

(ii) wherein the colorant contains at least one pigment selected from the group consisting of C.I. pigment red 122, C.I. pigment red 209, and C.I. pigment violet 19; and

(iii) wherein the colorant contains at least one pigment selected from the group consisting of C.I. pigment yellow 74, C.I. pigment yellow 138, C.I. pigment yellow 150 and C.I. pigment yellow 180.

20. (Currently Amended) The recording method of claim 16, wherein ~~for the ink composition~~ comprises a composition comprising at least the following ink compositions (i), (ii), (iii) and (iv): ~~are used at least the ink composition of claim 12, the ink composition of claim 13, the ink composition of claim 14 and the ink composition of claim 15~~

(i) wherein the colorant contains at least one pigment selected from the group consisting of C.I. pigment blue 15:3, and C.I. pigment blue 15:4;

(ii) wherein the colorant contains at least one pigment selected from the group consisting of C.I. pigment red 122, C.I. pigment red 209, and C.I. pigment violet 19;

(iii) wherein the colorant contains at least one pigment selected from the group consisting of C.I. pigment yellow 74, C.I. pigment yellow 138, C.I. pigment yellow 150, and C.I. pigment yellow 180; and

(iv) wherein the colorant contains carbon black.

21. (Currently Amended) The recording method of claim 17, wherein ~~for the ink composition~~ comprises a composition comprising at least the following ink compositions

(i), (ii), (iii) and (iv): are used at least the ink composition of claim 12, the ink composition of claim 13, the ink composition of claim 14 and the ink composition of claim 15

(i) wherein the colorant contains at least one pigment selected from the group consisting of C.I. pigment blue 15:3, and C.I. pigment blue 15:4;

(ii) wherein the colorant contains at least one pigment selected from the group consisting of C.I. pigment red 122, C.I. pigment red 209, and C.I. pigment violet 19;

(iii) wherein the colorant contains at least one pigment selected from the group consisting of C.I. pigment yellow 74, C.I. pigment yellow 138, C.I. pigment yellow 150, and C.I. pigment yellow 180; and

(iv) wherein the colorant contains a carbon black.

22. (Original) A recorded image recorded by the recording method of claim 16.

23. (Original) A recorded image recorded by the recording method of claim 17.

24. (Currently Amended) An ink set comprising the following ink compositions (i), (ii) and (iii), each being a composition according to claim 6:

(i) wherein the colorant contains at least one pigment selected from the group consisting of C.I. pigment 15:3 and C.I. pigment blue 15:4,

(ii) wherein the colorant contains at least one pigment selected from the group consisting of C.I. pigment red 122, C.I. pigment red 209 and C.I. pigment violet 19, and

(iii) wherein the colorant contains at least one pigment selected from the group consisting of C.I. pigment yellow 74, C.I. pigment yellow 138, C.I. pigment yellow 150 and C.I. pigment yellow 180~~the ink composition of claim 12;~~
~~the ink composition of claim 13; and~~
~~the ink composition of 14.~~

25. (Original) An ink set comprising the following ink compositions (i), (ii), (iii) and (iv), each being a composition according to claim 6:

(i) wherein the colorant contains at least one pigment selected from the group consisting of C.I. pigment 15:3 and C.I. pigment blue 15:4,

(ii) wherein the colorant contains at least one pigment selected from the group consisting of C.I. pigment red 122, C.I. pigment red 209 and C.I. pigment violet 19,

(iii) wherein the colorant contains at least one pigment selected from the group consisting of C.I. pigment yellow 74, C.I. pigment yellow 138, C.I. pigment yellow 150 and C.I. pigment yellow 180, and

(iv) wherein he colorant contains a carbon black

~~the ink composition of claim 12;~~

~~the ink composition of claim 13;~~

~~the ink composition of 14; and~~

~~the ink composition of claim 15.~~

26. (Original) An ink head comprising:

an ink tank for storing the ink composition of claim 1;

an ink chamber having a discharge port for discharging liquid droplets of the ink composition, the ink chamber being supplied with the ink composition from the ink tank;

a piezoelectric element disposed to at least a portion of the ink chamber, for applying a pressure to the ink composition contained in the ink chamber, the piezoelectric element generating distortion in response to a voltage applied thereto, and an electrode for applying the voltage to the piezoelectric element.

27. (Original) An ink head comprising:

an ink tank for storing the ink composition of claim 1;

an ink chamber having a discharge port for discharging liquid droplets of the ink composition, the ink chamber being supplied with the ink composition from the ink tank;

a heat generation body disposed to at least a portion of the ink chamber, for heating the ink composition contained in the ink chamber to generate air bubbles and thereby applying a pressure to the ink composition, and

an electrode for applying a voltage to the heat generation body.

28. (Original) A recorded image recorded by depositing liquid droplets of the ink composition which are discharged by the ink head of claim 26, on a recording material.

29. (Original) A recorded image recorded by depositing liquid droplets of the ink composition which are discharged by the ink head of claim 27, on a recording material.